

**BY ORDER OF THE COMMANDER,
PACIFIC AIR FORCES**



AIR FORCE MANUAL 91-201

**PACIFIC AIR FORCES COMMAND
Supplement 1**

7 JUNE 2002

Safety

EXPLOSIVES SAFETY STANDARDS

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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Certified by: HQ PACAF/SEW
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Supersedes AFMAN 91-201/PACAFSUP1,
16 June 2000

Pages: 13
Distribution: F

This publication applies to all personnel involved in PACAF explosives operations and to US-titled ammunition in contractor, leased, or host nation facilities. This publication applies to PACAF-based and gained Air National Guard (ANG) and Air Force Reserve Command (AFRC) units. Compliance is mandatory, but only as minimum safety standards. Send recommended changes on AF Form 847, **Recommendation for Change of Publication**, any conflicts with other Air Force directives as well as general correspondence about the content of this manual through command channels to HQ PACAF/ SEW, 25 E Street Suite A305, Hickam AFB HI 96853-5403.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed. This supplement incorporates HQ PACAF changes and additions to AFMAN 91-201, 18 Oct 01, which incorporates Interim Change (IC) 2001-1. It clarifies Weapons Safety's role in Base Support Planning (paragraph 1.4.2.); directs Wing Weapons Safety to publish wing supplements to AFMAN 91-201 (paragraph 2.3.7. (Added)); directs personnel limits to be annotated on the AF Form 2047 (paragraph 2.5.3.); provides guidance on the static display of operational aircraft (paragraph 2.7.2.); clarifies the need for an exemption/waiver for hunting/fishing/recreation within a Munitions Storage Area (paragraph 2.13.); directs the Exercise Evaluation Team (EET) Chief to develop a single risk assessment for wing exercises (paragraph 2.16.); clarifies the requirements for Military Working Dog (MWD) training involving explosives (paragraph 2.17.); appoints the authority having jurisdiction as the final determination authority for fire protection equipment (paragraph 2.21.8.5.); establishes igloo earth cover depth check requirements (paragraph 2.27.6.); establishes withdrawal distances for improvised explosive devices found in amnesty boxes (paragraph 2.31.5. (Added)); allows the wing weapons safety manager to add to the explosive facility licensing program (paragraph 2.35.); establishes a 5 calendar day turn-in period for exercise munitions (paragraph 2.35.6. and Attachment 14 (Added), A3.8. Remarks); provides security requirement guidance for licensed facilities (paragraph 2.35.7.1.); adds various EOD shock tube initiating devices to the list of items not requir-

ing an explosives license (paragraph 2.36.); provides reference to unserviceable explosives items turn-in guidance for licensed locations (paragraph 2.37.4.3.); clarifies written procedures for turn-in of ammunition from a maintenance facility (paragraph 2.37.5.6.); clarifies the removal of Kevlar vests during explosives operations (paragraph 2.51.1.); provides guidance to ensure ammunition containers are not secured to hazardous locations in a vehicle (paragraph 2.59.); allows the mixing of authorized compatibility groups when transporting munitions in a single military vehicle (paragraph 2.64.3.); directs the use of a trailer to transport EOD munitions when a separate cargo compartment is not available (paragraph 2.70. (Added)); provides guidance on Hazard Class/Division (HC/D) 1.2.x Q-D separation for aircraft survivability (Table 3.3, Note 17); incorporates 7 AF/CC letter for reduced Q-D criteria for Combat Aircraft Parking Areas (CAPA) (Table 3.3, Note 22/23 and Attachment 15 (Added)); incorporates PACAF/CV letter for reduced Q-D criteria to military-only runways and taxiways as an attachment (Table 3.3, Note 30); establishes Q-D separation for non-explosives loaded aircraft and removed reference to non-explosive loaded combat aircraft (Table 3.3, Note 43); establishes Q-D separation for runway arresting systems and weather instruments (Table 3.3, Note 66); authorizes bases in Korea to use Table 3.17 when siting 1st, 2nd, and 3rd generation aircraft shelters (paragraph 3.20.3.); authorizes the use of austere area provisions for select bases (paragraph 3.21.2.); requires the submission of an approved airfield waiver when siting explosives in an Airfield Explosives-Prohibited Zone (paragraph 3.25.2.); directs a risk assessment be accomplished for all demonstrations involving the detonation of explosives (paragraph 3.27.); adds electric matches for authorized off-range training (paragraph 3.28.4.11. (Added)); adds plaster or Avon slugs for authorized off-range training (paragraph 3.28.4.12. (Added)); provides guidance for exceptions incurred at Forward Operating Locations (FOL) in Alaska (paragraph 4.1.3.1. and 4.1.3.2.); directs wings to publish Net Explosive Weight (NEW) guides (paragraph 4.2.); updates ESP submission protocols (paragraph 4.3.3.); clarifies the explosives siting requirements for certain facilities and situations (paragraphs 4.8.1.1. and 4.8.1.2.); directs the project number from the Automated Civil Engineer System - Program Management (ACES-PM) be provided for new construction (paragraph 4.11.3.6.); directs the documentation of future construction within an explosives clear zone (paragraph 4.11.3.6.); directs the use of GeoBase or GPS in determining questionable separation distances (paragraph 4.11.4.); directs the use of Figure 5.1, Exception Decision Nomograph - Day-to-Day Operations, for exceptions incurred at Alaska FOLs (paragraph 5.3.); directs the use of Figure 5.1, Exception Decision Nomograph - Day-to-Day Operations, for exceptions incurred at Alaska FOLs (paragraph 5.5.2.3.); and directs personnel limits to be annotated on the AF Form 2047 and munitions to be turned in within 3 calendar days of exercise end (paragraph A3.8.). A “[” indicates revised material since the last edition.

AFMAN 91-201, 18 October 2001, is supplemented as follows:

1.3.3. See paragraph 2.31.4.

1.4.2. Each unit (i.e. NAF, Wing, and 607 MMS) will review their Base Support Plan (BSP) and all BSPs for bases where they are tasked to deploy. Weapons Safety personnel must have a thorough knowledge of all munitions requirements necessary to site plan adequate storage, operating, staging, combat aircraft parking and hot cargo locations. The 607 MMS/SEW will maintain current site plans for collocated operating bases and will provide deploying units with current site plan listings and/or NEW guides. Guidance for the development of base support plans can be found in AFI 10-404, *Base Support Planning*.

1.4.3. Host support units will work directly with their counterparts in the deploying unit. Host support units are responsible for providing deploying units with procedural information concerning operations at their base or Geographically Separated Units (GSU). Units hosting a deployment will request additional weapons safety support through the NAF and PACAF/SEW, when necessary.

2.3. The Wing Weapons Safety office must review locally written instructions, regulations, and plans relating to munitions or weapons systems annually.

2.3.7. (Added) Wing Weapons Safety must publish supplements to AFMAN 91-201 to establish unique wing procedures and requirements. Forward copies of approved supplements to PACAF/SEW.

2.4. All items listed are applicable.

2.4.4. Include the requirement to remove rings, watches, and jewelry in accordance with AFOSH 91-66 and AFOSH 91-100.

2.5.2. Posting Operating Limits. These limits may be written in the crew book if posting is impractical. The crew chief of the operation must have these limits written down in the crew book and ensure all crewmembers are aware of the munitions items within the operating location.

2.5.3. Annotate personnel limits on the AF Form 2047, *Explosives Facility License*, in Section IV, Remarks.

2.7.2. Aircraft canopies and cockpits will remain closed to visiting personnel unless an individual trained and qualified on the egress system or life support system is present at all times. Captive missiles will have umbilicals disconnected and shorting caps installed. See AFI 11-209, *Air Force Participation in Aerial Events*, for additional requirements.

2.11. Use English/Host Nation bilingual signs where appropriate.

2.13. The use of firearms for hunting at less than Public Traffic Route (PTR) distance is not permitted. All other forms of hunting/fishing/recreation at less than PTR will require an exemption/waiver. All hunting/fishing/recreation within a Munitions Storage Area (MSA) will require an exemption/waiver. This does not apply to those personnel assigned to the MSA.

2.16. The Installation Exercise Evaluation Team (EET) Chief can satisfy this requirement by developing a single letter or local operating instruction that details all exercises under their control, including those in conjunction with PACAF/IG. All other requirements of the basic manual apply.

2.17. Explosives will be limited to 7 lbs or less dispersed in the building in accordance with Table 3.26. The 100-foot IBD evacuation distance for nonessential personnel will be measured from the outside of the structure/facility or aircraft containing explosives in accordance with paragraph 3.10.14. The installation Military Working Dog (MWD) section, with the assistance of Wing Weapons Safety, will accomplish a detailed risk assessment for signature by the installation commander (reference paragraph 2.16. of the basic manual and this supplement). Wing Weapons Safety will produce a map/drawing of each authorized training location depicting the 100-foot IBD evacuation distance. These will be attached to the risk assessment and provided to the MWD section for reference. If aircraft are used for MWD training, ensure the OG/CC or equivalent is involved in the coordination process.

2.19. Munitions Control will maintain records of these drills in accordance with AFI 37-122, *Air Force Records Management Program*, and AFI 37-138, *Records Disposition-Procedures and Responsibilities*.

2.21.7.2. The requirements of AFOSH 91-100, *Aircraft Flight Line - Ground Operations and Activities*, will be met when operating support equipment for aircraft operations.

2.21.8.5. The authority having jurisdiction makes the final determination on fire protection equipment in the absence of regulatory guidance/requirements.

2.22.1. Perform and document fire extinguisher inspections in accordance with AFOSH 91-56, *Fire Protection & Prevention*.

Table 2.3, Note 4. When an item requires Set 1, 2, or 3 and Wear Breathing Apparatus symbols, posting the appropriate chemical hazard symbol (Set 1, 2, or 3) eliminates the requirement for Wear Breathing Apparatus symbol.

2.26.2. MAJCOM authority is PACAF/LGW. Info PACAF/SEW with message traffic.

2.26.4. Security Forces personnel may carry in-use ammunition (except (HC/D 1.1) into public assembly areas when required to meet essential mission needs. They may be brought into dining facilities provided rifles and grenades (40mm, M203, and M60) are placed into a rack and guarded by a Security Forces member while others go through the line.

2.27.6. Igloos will be inspected for sufficient earth covering annually in accordance with AFI 21-201, *Management and Maintenance of Nonnuclear Munitions*, paragraph 4.1.10.3, PACAF Supplement 1. The 90-day repair time will be based on the date the igloos are identified as having less than 24 inches of earth cover. Refer to AFI 21-201, PACAF Supplement 1, Attachment 9, for measurement diagram and sample format for documenting depth checks.

2.28.4. MAJCOM authority is PACAF/LGW. Info PACAF/SEW with message traffic.

2.31.2. Activities other than MSAs, such as licensed locations, must turn in unserviceable/expended items to the base munitions activity within 7 duty days. If this turn-in period is exceeded, the using organization must maintain documentation as to why it could not be met (i.e. exercises, munitions inventory, etc.). Documentation will be maintained until items are turned-in. Wing Weapons Safety offices will coordinate on documentation.

2.31.5. (Added) Amnesty Boxes and Improvised Explosive Devices. Units responsible for the inspection of amnesty boxes will develop written procedures governing the inspection and handling of munitions found in amnesty boxes. Boxes must be placed at least 50 feet from combustible/hazardous materials and public traffic routes/gathering places. If improvised explosive devices (IED) are discovered, withdraw all non-essential personnel an initial distance of 500 feet for IEDs up to box size (large briefcase/package 2 cubic feet) and 1,000 feet for barrel size or vehicle type IEDs. On-scene authorities may expand/shrink this distance when the situational analysis warrants.

2.35. The explosives facility licensing program is a responsibility of the Wing Weapons Safety Manager. Weapons Safety Managers may not detract from the licensing requirements of this manual; however, they may stipulate additional requirements in the interest of safety (i.e. licensing units with less than 1,000 rounds of small arms ammunition). See paragraph 2.54.1.8.8 for lightning protection requirements.

2.35.6. Licenses issued solely for exercise-use munitions, such as GBS and smoke grenades, must state in the remarks section of the AF Form 2047 and in the applicable local written instruction, *"FOR DURATION OF EXERCISE ONLY, Munitions will be returned to the munitions storage area within 3 calendar days of the end of each exercise."* Licenses need not be rescinded at the end of each exercise.

2.35.7.1. The security requirements in AFI 31-101, paragraph 23.3.3, must be met or a waiver must be requested through appropriate channels.

2.36. M142 Firing device and M5 Electric match and other shock tube initiating devices.

2.37.4.3. Reference paragraph **2.31.2.** of this supplement.

2.37.5.6. Licensing is required when written procedures are not established to return downloaded ammunition to the MSA within 24 hours.

2.37.6. Explosive Ordnance Disposal (EOD) or other qualified source will provide training annually, as determined by the local weapons safety office.

Table 2.4, Note 2. Forward the MSA commander's approval to PACAF/LGW for final approval. Provide info copy to PACAF/SEW.

2.48.1. Communication lines include cable TV lines.

2.51.1. Kevlar vests will be removed prior to entering an environment where exposed explosives are present.

2.52.5. Facility installed static grounding reels will be inspected and tested in accordance with T.O. 00-25-172, Chapter 3. Quarterly visual inspection requirements of the basic manual also apply to these reels. Continuity/resistance tests will be accomplished when installed and at intervals not to exceed 24 months. Test results will be documented and controlled at the flight level.

2.59. Security forces vehicles transporting armed personnel and their basic load munitions on-post, and to and from post do not require Department of Transportation (DOT) placards. Check host nation laws for off-base placarding requirements. In addition to the basic load ammunition carried on their person (in pouches rucksacks, containers, etc.) security forces personnel may have basic load munitions in the vehicle cab or bed provided they are in closed immobilized metal containers. Ensure container mounting surfaces or areas where containers are tied down do not pose a heat or spark threat to munitions items.

2.64.3. EOD is authorized to transport minimum quantities of explosives necessary for demolition operations and proficiency training in a single military vehicle. At no time will munitions items be transported in the personnel compartment of a vehicle. All demolition explosives and munitions will be serviceable. Mixing of applicable compatibility groups is authorized. Blasting caps and explosives/demolition materials will be separated to the maximum extent possible at all times.

2.68. The installation weapons safety office will approve explosive movement routes. Movement of MWD explosives training aids need not conform to primary and alternate explosive routes; however, deviations from explosive routes will be addressed in locally written operating instructions.

2.68.1. (Added) Transportation of EOD explosives used for exercises are not restricted to designated routes. Explosive placarding of the vehicle is required. EOD personnel must avoid populated areas as much as possible in accordance with paragraph **2.59**.

2.70. (Added) EOD vehicles without separate cargo compartments will use trailers to transport explosives for demolition operations and training.

2.74.19. (Added) Special requirements for the transportation of explosives in Japan. The additional procedures given in USFJI 24-2 apply to all US forces transporting explosives over Japanese public highways.

2.77. The last sentence should give guidance to see paragraph 3.4.2.3.

3.11.2.4. The maximum credible event (MCE) will not exceed 500,000 lbs NEW.

Table 3.3., NOTE 12. Wing Weapons Safety offices will identify what actions constitute servicing in their supplement to this manual or other local operating instruction.

Table 3.3., NOTE 17. The installation commander or equivalent will determine application of HC/D 1.2.X criteria for aircraft survivability. Wing Weapons Safety Managers must inform the commander owning the assets (exposed sites) of the fragmentation hazards of the applicable 1.2.X PES if survivability criteria is not used. Document in the ESP transmittal letter and Section III of the AF Form 943, with commander's signature.

Table 3.3., NOTE 22. 7 AF/CC has accepted the use of reduced combat aircraft parking criteria at Cheong Ju, Kunsan, Kwang Ju, Osan, Suwon, and Taegu Air Bases (see [Attachment 15 \(Added\)](#)).

Table 3.3., NOTE 23. 7 AF/CC has accepted the risks of parking combat aircraft at less than K30 at Cheong Ju, Kunsan, Kwang Ju, Osan, Suwon, and Taegu Air Bases (see [Attachment 15 \(Added\)](#)).

Table 3.3., NOTE 30. PACAF/CV has accepted the use of reduced separations, when operationally necessary, at Osan, Kunsan, Kwang Ju, Suwon, Taegu, Cheong Ju, Kadena, Misawa, & Yokota Air Bases (see [Attachment 12 \(Added\)](#)).

Table 3.3., NOTE 43. Use K30 for aircraft parked in these types of areas. Use the appropriate Inhabited Building Distance (IBD) separation for HC/D 1.2; Table 3.13, IB or PTR column for HC/D 1.3; and 100-foot minimum for HC/D 1.4.

Table 3.3., NOTE 50. Use K11 from an unbarricaded or barricaded Combat Aircraft Parking Area (CAPA) to the front of a Korean TAB VEE.

Table 3.3., NOTE 62. See paragraph 3.20.4 for HASs used solely as permanent maintenance facilities.

Table 3.3., NOTE 66. Treat runway arresting systems with the same criteria as the runway they support (Ref: Table 3.3, lines 15-18). Weather instruments require IL from flightline PESs and Incremental IB from non-flightline PESs.

3.18. Inert storage facilities, such as small sheds, that support specific buildings in the clear zone must be a minimum of 50 ft from any PES.

3.20.3. First, second, and third generation shelters at Osan, Kunsan, Kwang Ju, Suwon, Taegu, and Cheong Ju Air Bases are authorized to use intershelter separation criteria in Table 3.17 (see [Attachment 13 \(Added\)](#)).

3.21.2. Austere area provisions are authorized at Osan, Kunsan, Kwang Ju, Suwon, Taegu, Cheong Ju, Sachon, Kimhae, and Kadena Air Bases (see [Attachment 14 \(Added\)](#)).

Table 3.16., NOTE 2. Wing Weapons Safety offices will identify what actions constitute servicing in their supplement to this manual or other local operating instruction.

Table 3.17., NOTE 8. Wing Weapons Safety offices will identify what actions constitute servicing in their supplement to this manual or other local operating instruction.

3.25.2. An approved airfield waiver must be submitted when siting any explosives within an Airfield Explosives-Prohibited Zone. Reference United Facilities Criteria (UFC) 3-260-01, *Airfield and Heliport Planning and Design*.

3.27. Develop local written procedures in accordance with AFMAN 91-201 paragraph 2.3, for all demonstrations involving explosives (i.e. air shows) and forward to PACAF/SEW and PACAF/CEX for approval at least 30 days prior to the demonstration. If the airfield requirements in paragraph **3.25.2.** are not met, units must process a waiver request in accordance with UFC 3-260-01.

3.28.4.11. (Added) Five each Electric Matches

3.28.4.12. (Added) Use plaster or Avon slugs that will disintegrate upon impact.

3.29.5.3. (Added) Keep aboveground pipelines that serve pump/pump houses at NFPA standard.

3.29.6.1. Fixed POL pantograph systems attached to hydrants do not require Q-D separation. These systems have “dead-man controls” and other features that prevent fuel discharge in a mishap event.

3.36.3. Contact PACAF/SEW for approved buffered storage drawings.

4.1.3.1. Alert aircraft missions at Alaska Forward Operating Locations (FOL) are considered Day-to-Day operations.

4.1.3.2. Alaska FOLs do not fall under the category of War Plan Operations.

4.2. Wing Weapons Safety offices will incorporate approved explosive site plans into a base NEW guide or OI and distribute to all units with sited areas and those that utilize or document munitions items (see paragraph **2.3.7. (Added)** of this supplement). As a minimum, Munitions Control, the Wing Weapons Manager, Maintenance Operations Center (MOC), Maintenance Operations Division (MOD), the Installation Community Planner, and the EOD Chief will receive a copy.

4.3.3. All site plans will be forwarded through the NAF/SEW for review prior to submission to PACAF/SEW. Units not using Assessment System for Hazard Surveys (ASHS) will submit an electronic Microsoft Word copy of the transmittal letter and AF Form(s) 943; and an electronic version of the map. Map must be to scale or scalable under the program (i.e. AutoCAD). It is preferred that all supporting material be submitted electronically, if possible. Units will submit the original and two copies of site plan supporting materials if these documents are not available electronically.

4.7.1. The Wing Weapons Safety office can approve modifications that observe the rules identified in **4.7.1.** thru 4.7.1.5.

4.8.1.1. A routine site plan package will be processed and forwarded for approval by PACAF/SEW.

4.8.1.2. An ORM analysis will be accomplished for each area identified, to include the specifics of the training and a detailed list of the explosives items to be used. The installation commander will approve this analysis. The Wing Weapons Safety office will forward one copy to NAF for review prior to submission to PACAF/SEW and will maintain one copy locally.

4.8.1.3. An ORM analysis will be accomplished for each area identified, to include the specifics of the training and a detailed list of the explosives items to be used. The installation commander will approve this analysis. The Wing Weapons Safety office will forward one copy to NAF for review prior to submission to PACAF/SEW and will maintain one copy locally.

4.11.3.5. Provide the project number from the Automated Civil Engineer System - Project Management (ACES-PM).

4.11.3.6. Documentation is required which shows installation commander intent to approve the facility siting as shown pending DDESB approval of the explosive siting. An installation commander approved facility site plan marked "final approval pending DDESB explosive site approval" is sufficient.

4.11.3.8.6. Wing/SE and NAF/SE must coordinate on all requests for expeditious processing.

4.11.4. When the accuracy of maps is in question, use the Common Installation picture from GeoBase, GPS coordinates, or other accurate means and state its use in the cover letter.

4.44. These types of facilities may have “Apply No Water” munitions present. The benefits of automatic sprinkler systems preventing fire from reaching these munitions exceed the risks of the munitions becoming engulfed in flames.

5.2.3.1. Document violated PES/ESs on AF Form 943. Electronic mail (e-mail) may be used in lieu of fax.

5.2.5. A timeline will be submitted for all deviations outlining the measures being taken to correct the deficiency. Deviations for day-to-day and war plan operations are approved by PACAF/SE.

5.3. Use Figure 5.1, Exception Decision Nomograph -Day-to-Day Operations, to determine approval levels for exceptions at Alaska FOLs.

5.3.1. The 15 ABW/CC will be the NAF risk-based approval authority for exceptions involving 15 ABW host and tenant unit operations.

5.3.4. (Added) In Korea, prior coordination with the host nation has been waived as per Deputy Assistant SECAF letter dated 29 Feb 88. Once signed by installation and NAF commanders, 7 AF/SE will provide US Forces Korea (USFK) with the necessary documentation for coordination with appropriate host nation authorities when non-ROK military exposures are violated. 7 AF/SE will provide the ROKAF Air Force Operational Command (AFOC) with necessary documentation when only ROK military exposures are violated.

5.4.1. Periodic reviews will be submitted to the NAF prior to submission to PACAF/SEW with the following documentation, as applicable: a cover letter explaining what actions were accomplished, an Exception Decision Nomograph; and a copy of the original AF Form 943 with changes. Maps and any additional information that will explain the review are required.

5.5.2.3. Contingency: Notification to deploy/employ in preparation of war or hostilities. The resulting action would put personnel in harm’s way. Use Figure 5.1, Exception Decision Nomograph -Day-to-Day Operations, to determine approval levels for exemptions at Alaska FOLs.

A3.8. Licenses issued solely for exercise-use munitions, such as GBSs and smoke grenades, must state in the remarks section of the AF Form 2047 and in the applicable OI, “*FOR DURATION OF EXERCISE ONLY, Munitions will be returned to the munitions storage area within 3 calendar days of the end of each exercise*”. Licenses need not be rescinded at the end of each exercise. Annotate personnel limits in this section.

A4.4.1. When documenting on and off-base exposures apply the risk-based nomograph to determine the approval level of the violation. In Korea, this guidance also applies to the exposures previously covered by the SECAF exemptions. Contact PACAF/SEW for additional guidance on applicability/amendments.

A4.5.2. If compensatory measures are used to mitigate or eliminate violations, identify or attach locally approved written guidance.

Attachment 12 (Added)

**SAMPLE MEMORANDUM FOR ACCEPTANCE OF RISK
FOR REDUCED CRITERIA IN PACAF**

6 July 2001

MEMORANDUM FOR HQ AFSC/SE

FROM: PACAF/CV
25 E Street Suite G-214
Hickam AFB HI 96853-5420

SUBJECT: Acceptance of Risk for Reduced Criteria in PACAF

1. Reference: AFMAN 91-201, Table 3.3, Note 30
2. In accordance with the above reference, PACAF requires the use of reduced separations at the locations identified in paragraph 3 for operational necessity. Transient risk to military aircraft movements is accepted.
3. Reduced criteria may be applied to the following locations within PACAF in accordance with AFMAN 91-201, Table 3.3, Note 30:
 - Osan AB, Korea
 - Kunsan AB, Korea
 - Kwang Ju AB, Korea
 - Suwon AB, Korea
 - Taegu AB, Korea
 - Cheong Ju AB, Korea
 - Kadena AB, Japan
 - Misawa AB, Japan
 - Yokota AB, Japan
4. Any questions can be directed to HQ PACAF/SEW at DSN 315-449-5050 or e-mail <mailto:pacaf.sew@hickam.af.mil>.

// Signed //
LANSFORD E. TRAPP, JR., Lt General, USAF
Vice Commander

Attachment 13 (Added)**SAMPLE MEMORANDUM FOR INTERSHELTER SEPARATION
CRITERIA TO PREVENT SIMULTANEOUS DETONATION**

12 July 2001

MEMORANDUM FOR HQ AFSC/SE

FROM: PACAF/CV
25 E Street Suite G-214
Hickam AFB HI 96853-5420

SUBJECT: Intershelter Separation Criteria to Prevent Simultaneous Detonation

1. References: AFMAN 91-201, paragraph 3.20.3, Table 3.16 and Table 3.17
2. Some PACAF bases have limited land available for siting and constructing new hardened aircraft shelters in accordance with AFMAN 91-201, Table 3.16. To ensure safe operations, AFMAN 91-201 lets us use reduced planning criteria to meet mission requirements, while maintaining combat survivability. The use of AFMAN 91-201, Table 3.17 will ensure operational plan capabilities are maintained.
3. Aircraft survivability criteria will be applied to first, second, and third generation Hardened Aircraft Shelter sitings whenever possible in accordance with AFMAN 91-201, Table 3.16. When this criteria cannot be met, PACAF is authorized to use hardened aircraft shelter separations to prevent simultaneous detonation in accordance with the above references. The increased risks associated with the use of Table 3.17 are accepted.
4. Intershelter separation criteria to prevent simultaneous detonation may be applied only to the following locations within PACAF in accordance with AFMAN 91-201, Table 3.17:
 - Osan AB, Korea
 - Kunsan AB, Korea
 - Kwang Ju AB, Korea
 - Suwon AB, Korea
 - Taegu AB, Korea
 - Cheong Ju AB, Korea
5. Any questions can be directed to HQ PACAF/SEW at DSN 315-449-5050 or e-mail <mailto:pacaf.sew@hickam.af.mil>.

// Signed //

LANSFORD E. TRAPP, JR., Lt General, USAF
Vice Commander

Attachment 14 (Added)**SAMPLE MEMORANDUM FOR MUNITIONS STORAGE IN AUSTERE AREAS**

18 July 2001

MEMORANDUM FOR HQ AFSC/SE

FROM: HQ PACAF/CV
25 E Street Suite G-214
Hickam AFB HI 96853-5420

SUBJECT: Munitions Storage in Austere Areas

1. References: AFMAN 91-201, paragraph 3.21 and 1.4
2. At no time is the observance of explosives safety practices more important than when deploying and/or employing combat forces. Explosives safety is an integral part of combat survivability. Normal explosives safety standards, procedures, Quantity-Distance criteria, and methods of application in AFMAN 91-201 will apply to explosives storage areas in austere areas. The exceptions listed in AFMAN 91-201, paragraph 3.21 are alternatives to normal criteria and may be used, if necessary, to support operational plans. The use of greater separations must be used where possible.
3. In accordance with the above references, austere area provisions for explosives storage areas are authorized for the following PACAF bases:
 - Osan AB, Korea
 - Kunsan AB, Korea
 - Kwang Ju AB, Korea
 - Suwon AB, Korea
 - Taegu AB, Korea
 - Cheong Ju AB, Korea
 - Sachon AB, Korea
 - Kimhae AB, Korea
 - Kadena AB, Japan
4. Any questions can be directed to HQ PACAF/SEW at DSN 315-449-5050 or e-mail <mailto:pacaf.sew@hickam.af.mil>.

// Signed //

LANSFORD E. TRAPP, JR., Lt General, USAF
Vice Commander

Attachment 15 (Added)**SAMPLE MEMORANDUM FOR ACCEPTANCE OF RISK FOR PARKING
COMBAT AIRCRAFT AT REDUCED DISTANCE CRITERIA**

24 Aug 2001

MEMORANDUM FOR PACAF/SE

FROM: 7 AF/CC

SUBJECT: Acceptance of Risk for Parking Combat Aircraft at Reduced Distance Criteria

1. Due to mission requirements, Seventh Air Force (7th AF) must use the reduced distance separation for Combat Aircraft Parking Areas outlined in AFMAN 91-201, *Explosives Safety Standards*, Table 3.3, Notes 22 and 23.

2. IAW AFMAN 91-201, Table 3.3, Notes 22 and 23, reduced QD criteria applies to the following locations in 7th AF:

Cheong Ju AB, Korea
Kunsan AB, Korea
Kwang Ju AB, Korea
Osan AB, Korea
Suwon AB, Korea
Taegu AB, Korea

3. This decision takes into account the known consequences of parking aircraft at reduced quantity-distance (QD) requirements.

4. 7 AF point of contact is MSgt Barry Morris, 7th AF/SEW, at <mailto:barry.morris@osan.af.mil> or DSN 784-8945.

// Signed //

CHARLES R. HEFLEBOWER, Lt General, USAF
Commander, Seventh Air Force

DAVID G. JOWERS, Colonel, USAF
Director of Safety